## Claims

- 1 1. Fuel injection valve comprising:
- 2 a nozzle body having a nozzle body seat, and
- 3 a nozzle needle tightly guided in the nozzle body and incorporating a nozzle
- 4 needle shaft and a nozzle needle seat,
- 5 wherein the nozzle body seat and the nozzle needle seat together forming a
- 6 sealed seat,
- 7 wherein a gap is provided axially in height between the sealed seat and the
- 8 nozzle needle shaft, and wherein an outer surface of the nozzle needle runs
- 9 essentially parallel to an inner surface of the nozzle body in the region of the
- 10 gap.
  - 1 2. Fuel injection valve according to Claim 1, wherein the gap is implemented as an
- 2 elongated recess in the nozzle needle and/or the nozzle body.
- 1 3. Fuel injection valve according to Claim 1, wherein the gap adjoins a sealing
- 2 edge of the nozzle needle seat.
- 4. Fuel injection valve according to Claim 1, wherein the sealing edge is provided
- 2 on a circumferential cylindrical needle section between a nozzle needle tip and a
- 3 frusto-conical body section of the nozzle needle.
- 1 5. Fuel injection valve according to Claim 4, wherein the outer surfaces of the
- 2 conical nozzle needle tip and of the frusto-conical body section of the nozzle
- 3 needle each have essentially the same included angle.

- 1 6. Fuel injection valve comprising:
- 2 a nozzle body having a nozzle body seat,
- 3 a nozzle needle tightly guided in the nozzle body and incorporating a nozzle
- 4 needle shaft and a nozzle needle seat,
- 5 a sealed seat formed by the nozzle body seat and the nozzle needle seat,
- 6 a gap axially in height between the sealed seat and the nozzle needle shaft, and
- 7 an outer surface of the nozzle needle running essentially parallel to an inner
- 8 surface of the nozzle body in the region of the gap.
- 1 7. Fuel injection valve according to Claim 6, wherein the gap is implemented as an
- 2 elongated recess in the nozzle needle and/or the nozzle body.
- 8. Fuel injection valve according to Claim 6, wherein the gap adjoins a sealing
- 2 edge of the nozzle needle seat.
- 1 9. Fuel injection valve according to Claim 6, wherein the sealing edge is provided
- 2 on a circumferential cylindrical needle section between a nozzle needle tip and a
- 3 frusto-conical body section of the nozzle needle.
- 1 10. Fuel injection valve according to Claim 9, wherein the outer surfaces of the
- 2 conical nozzle needle tip and of the frusto-conical body section of the nozzle
- 3 needle each have essentially the same included angle.